

ILLUSTRATIVE MIRS SPECTRAL RESPONSE

FIG 2R

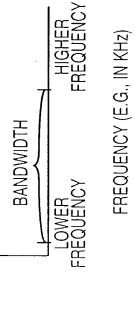
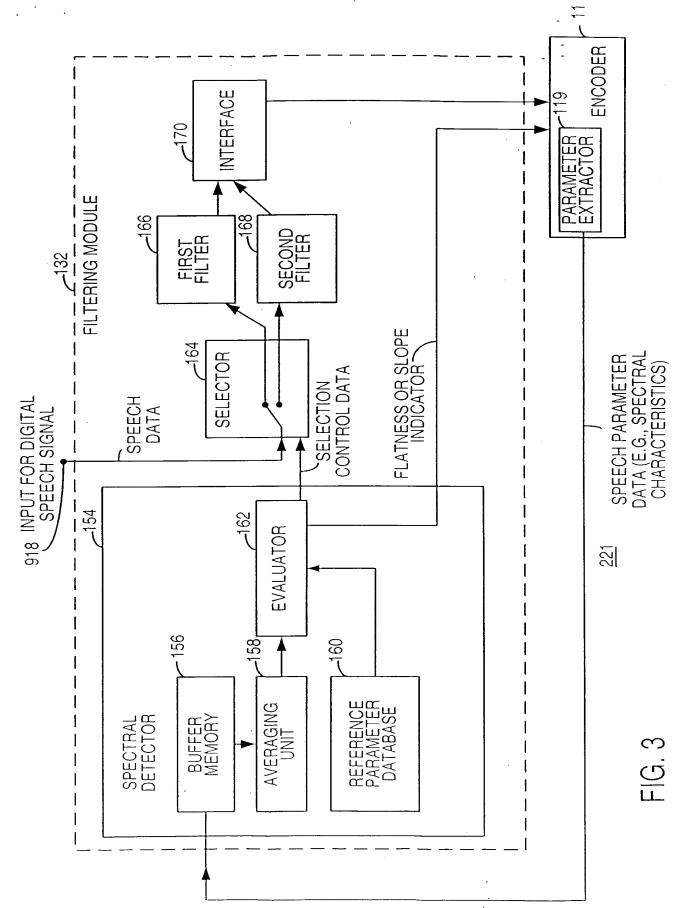
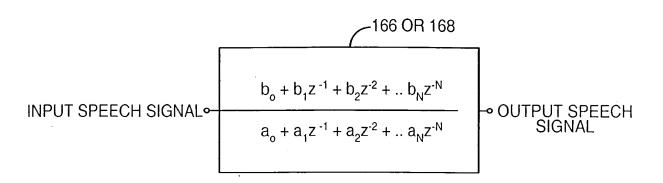


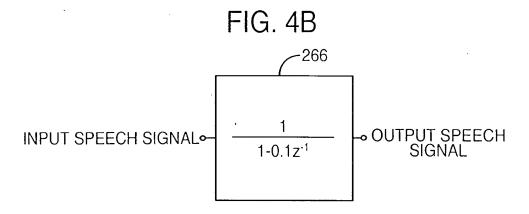
FIG. 2A

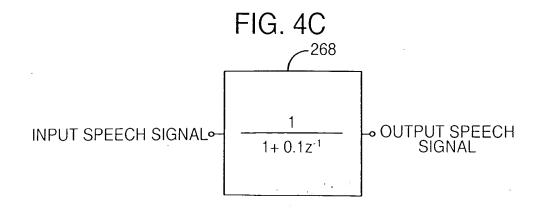


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FIG. 4A



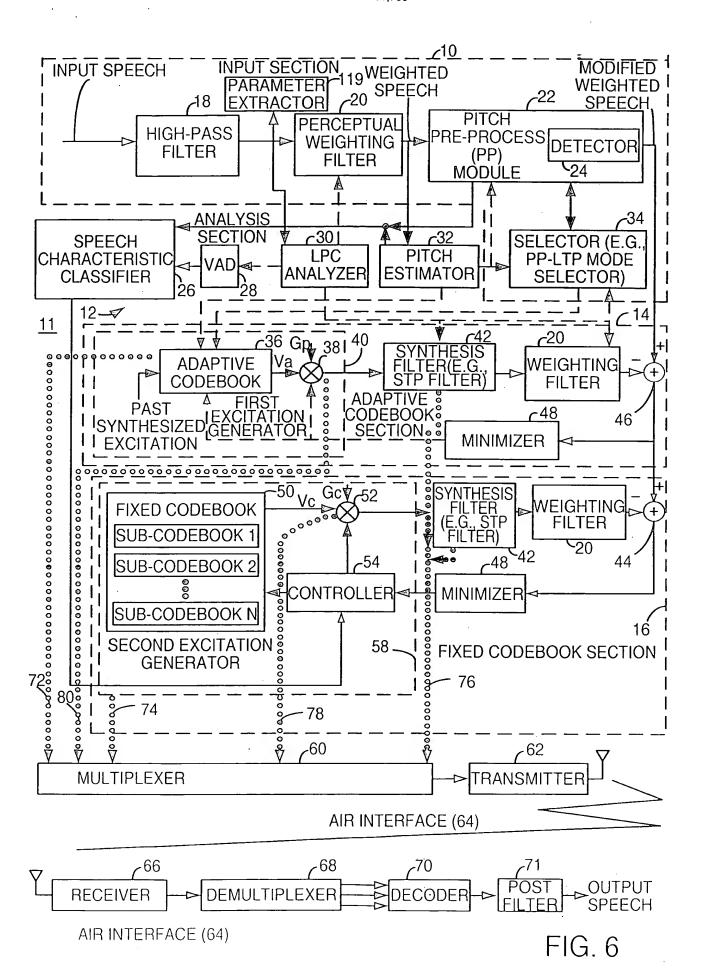




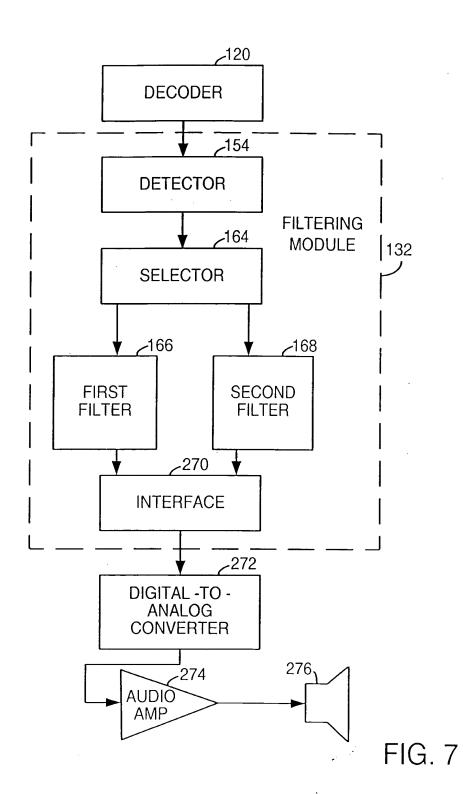
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~S10 ASSUME THE SPECTRAL RESPONSE OF A SPEECH SIGNAL IS SLOPED IN ACCORDANCE WITH A DEFINED CHARACTERISTIC SLOPE(E.G., AN MIRS SIGNAL RESPONSE). ~S12 ACCUMULATE SAMPLES (E.G., FRAMES) OF THE SPEECH SIGNAL OVER AT LEAST A MINIMUM SAMPLING DURATION (E.G., 2-4 SECONDS) ~S14 AVERAGE THE ACCUMULATED SAMPLES ASSOCIATED WITH THE MINIMUM SAMPLING DURATION TO OBTAIN AN AVERAGED REPRESENTATIVE SAMPLE. ~S16 COMPARE THE AVERAGED REPRESENTATIVE SAMPLE TO REFERENCE DATA IN A REFERENCE DATABASE OF SPECTRAL CHARACTERISTICS, INCLUDING AT LEAST ONE OF THE DEFINED CHARACTERISTIC SLOPE AND A FLAT SPECTRAL RESPONSE. ~S18 DOES A SLOPE OF THE REPRESENTATIVE SAMPLE OF THESPEECH SIGNAL CONFORM TO THE DEFINED CHARACTERISTIC SLOPE AS DETERMINED BY THE COMPARISON? 4YES NO ~S20 APPLY A FIRST FILTER TO LESSEN A SLOPE OF THE SPEECH SIGNAL TO APPROACH A FLATTER SPECTRAL RESPONSE IN PREPERATION FOR PROSPECTIVE SPEECH CODING. ~S22 IS THE SPECTRAL RESPONSE OF THE REPRESENTATIVE SAMPLE OF THE SPEECH SIGNAL GENERALLY NQ FLAT AS DETERMINED BY THE COMPARISON? 4 YES ~S24 APPLY A SECOND FILTER TO INCREASE A SLOPE OF THE SPECTRAL RESPONSE OF THE SPEECH SIGNAL TO APPROACH A MORE SLOPED SPECTRAL RESPONSE THAN THE FLAT SPECTRAL RESPONSE IN PREPARATION FOR PROSPECTIVE SPEECH CODING. ~S26

ADJUST ONE OR MORE CODING PARAMETERS OR SELECT PREFERENTIAL CODING PARAMETER VALUES (E.G. A FIRST CODING PARAMETER VALUE AND A SECOND CODING PARAMETER VALUE) CONSISTANT WITH APPLICATION OF THE FIRST FILTER OR THE SECOND FILTER.



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